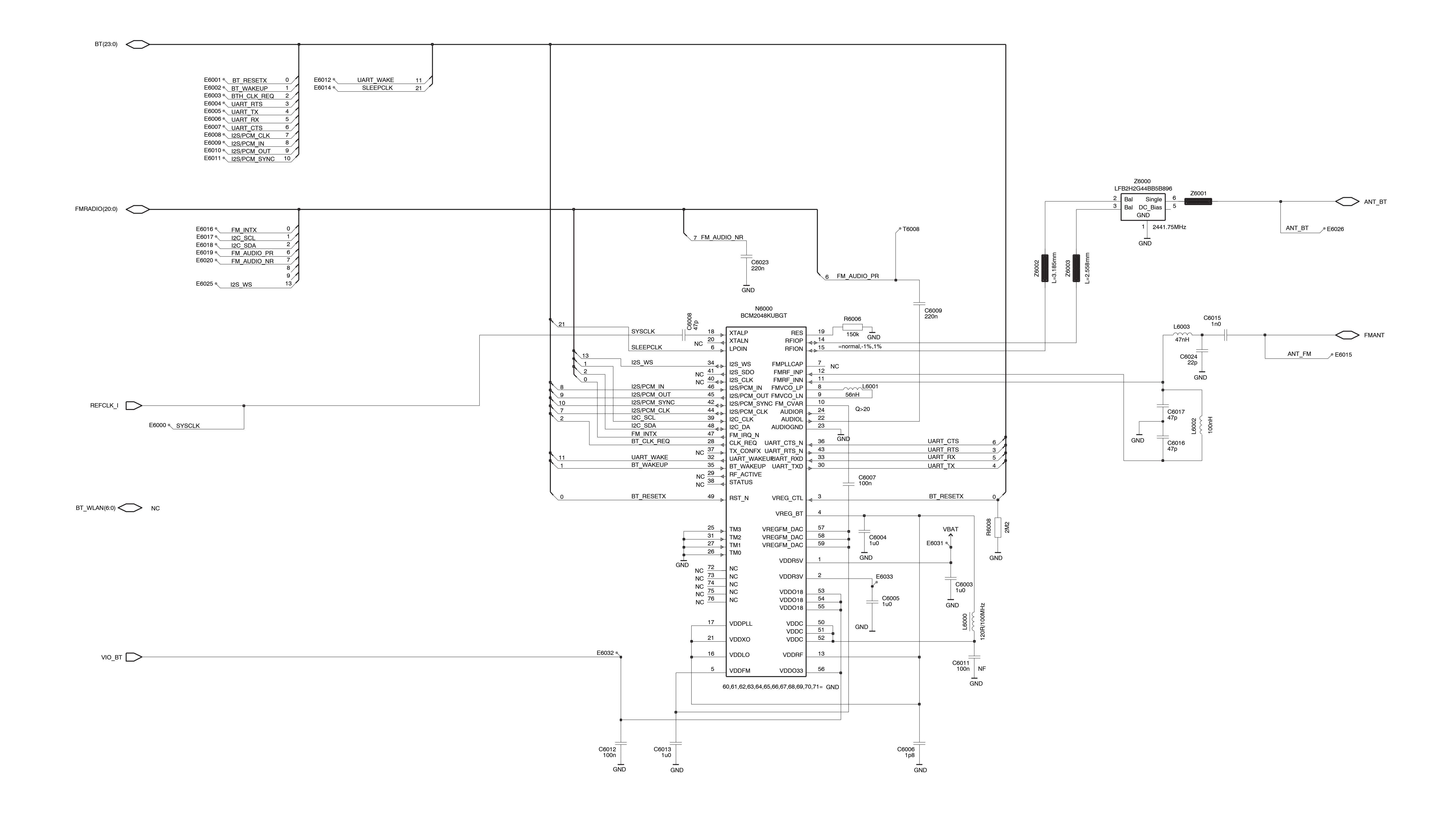
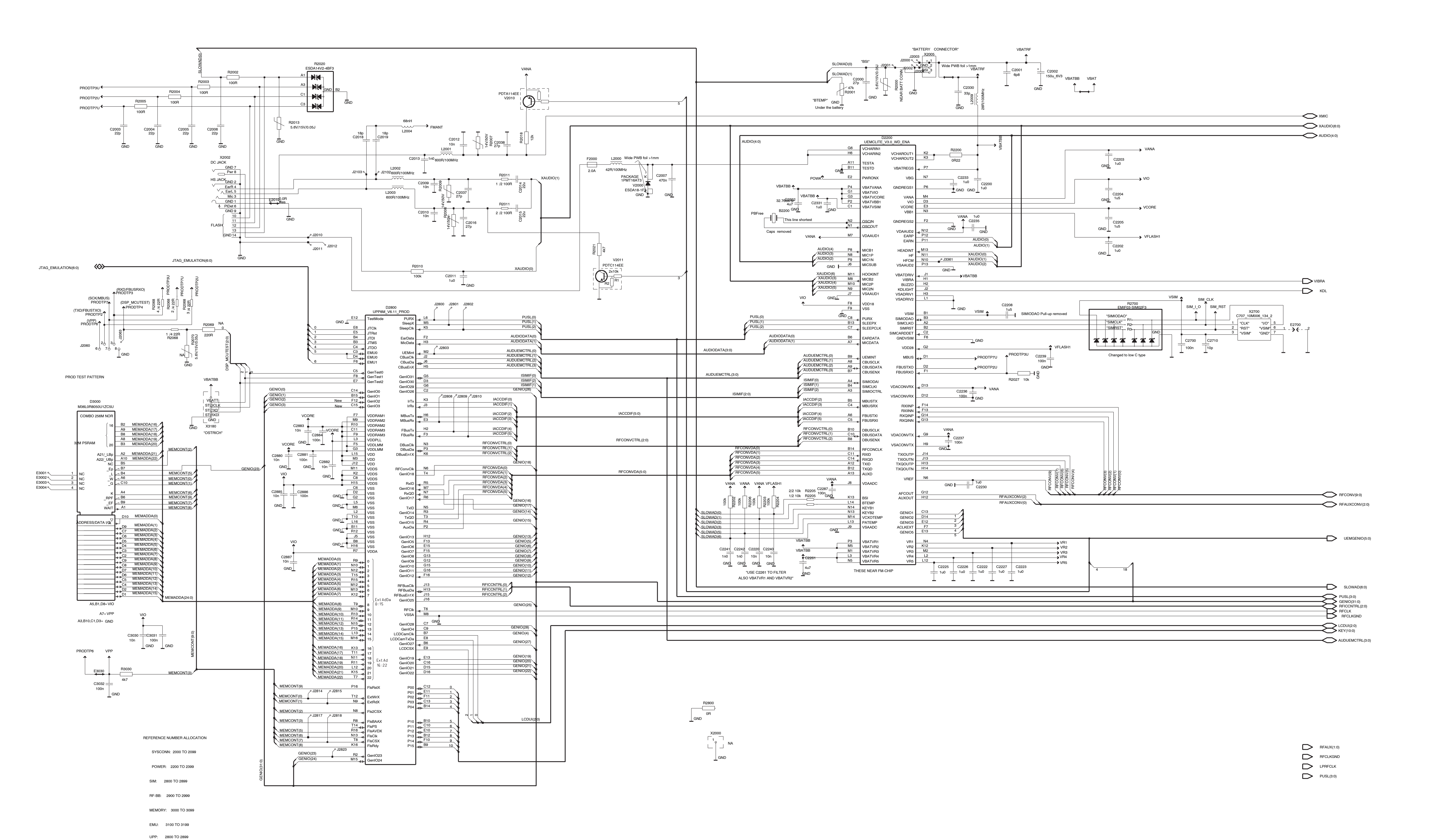
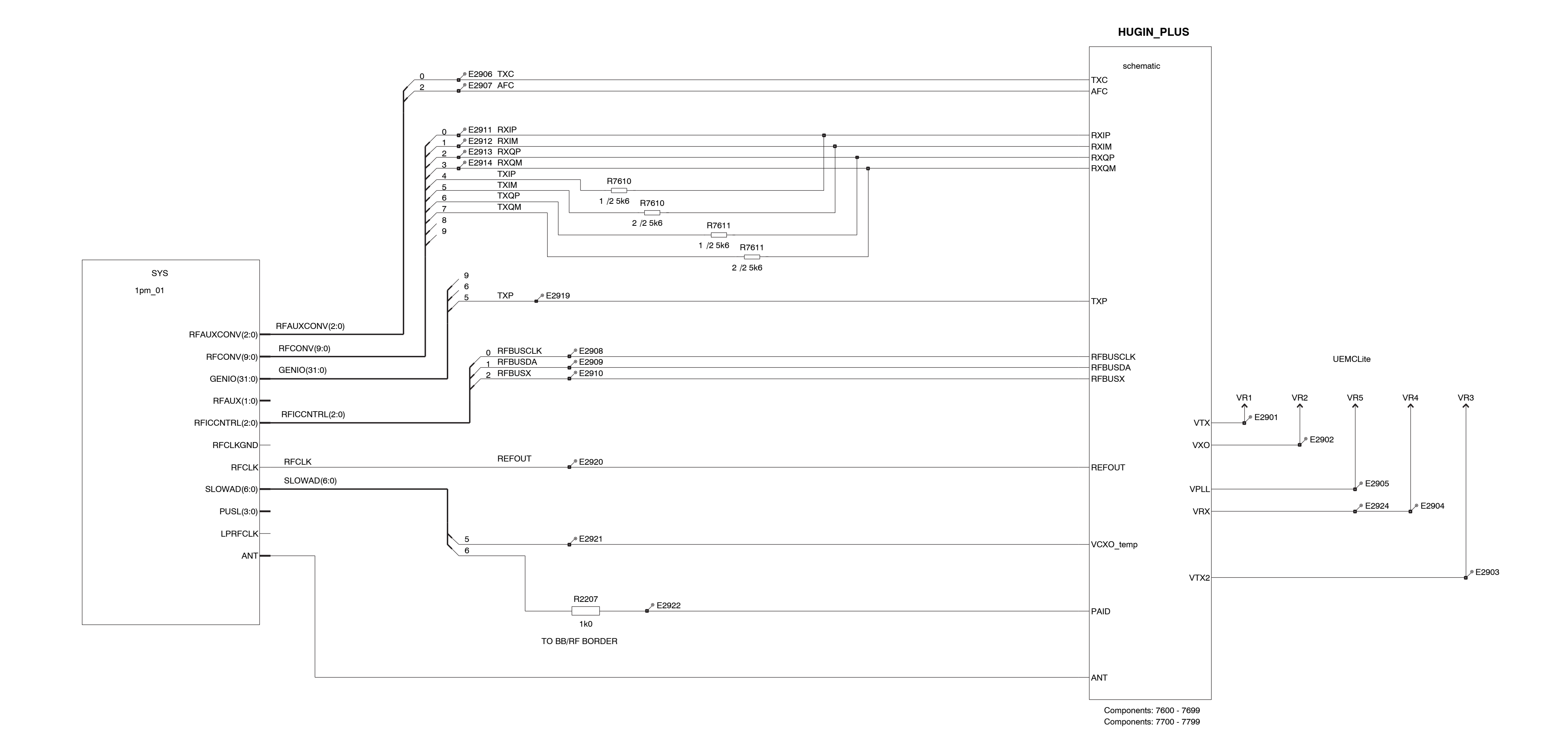
BTHFMRDS_2.0D_141 A1.0 2006 WK 39 RELEASE

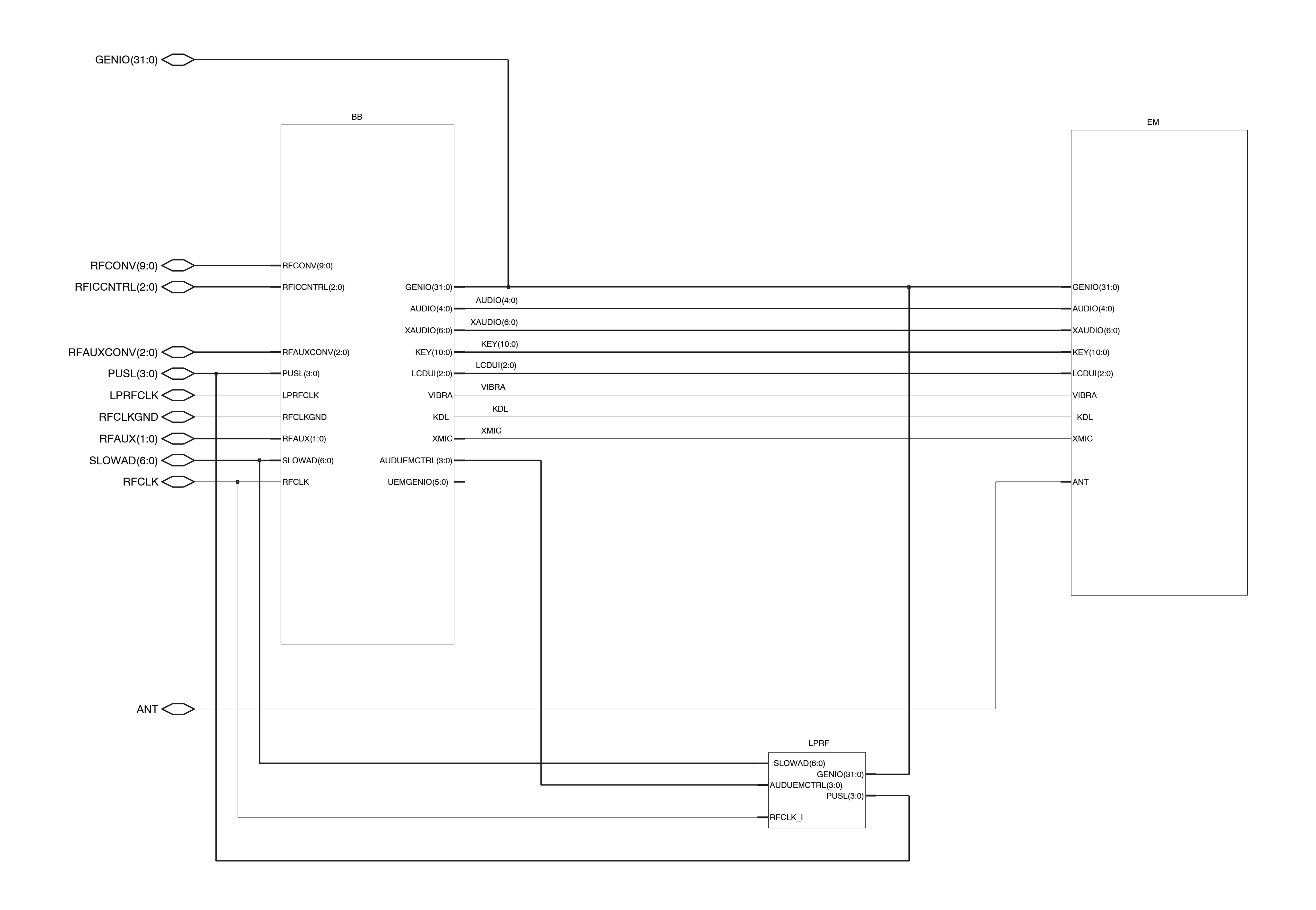
BLUETOOTH & FM RADIO DISCRETE

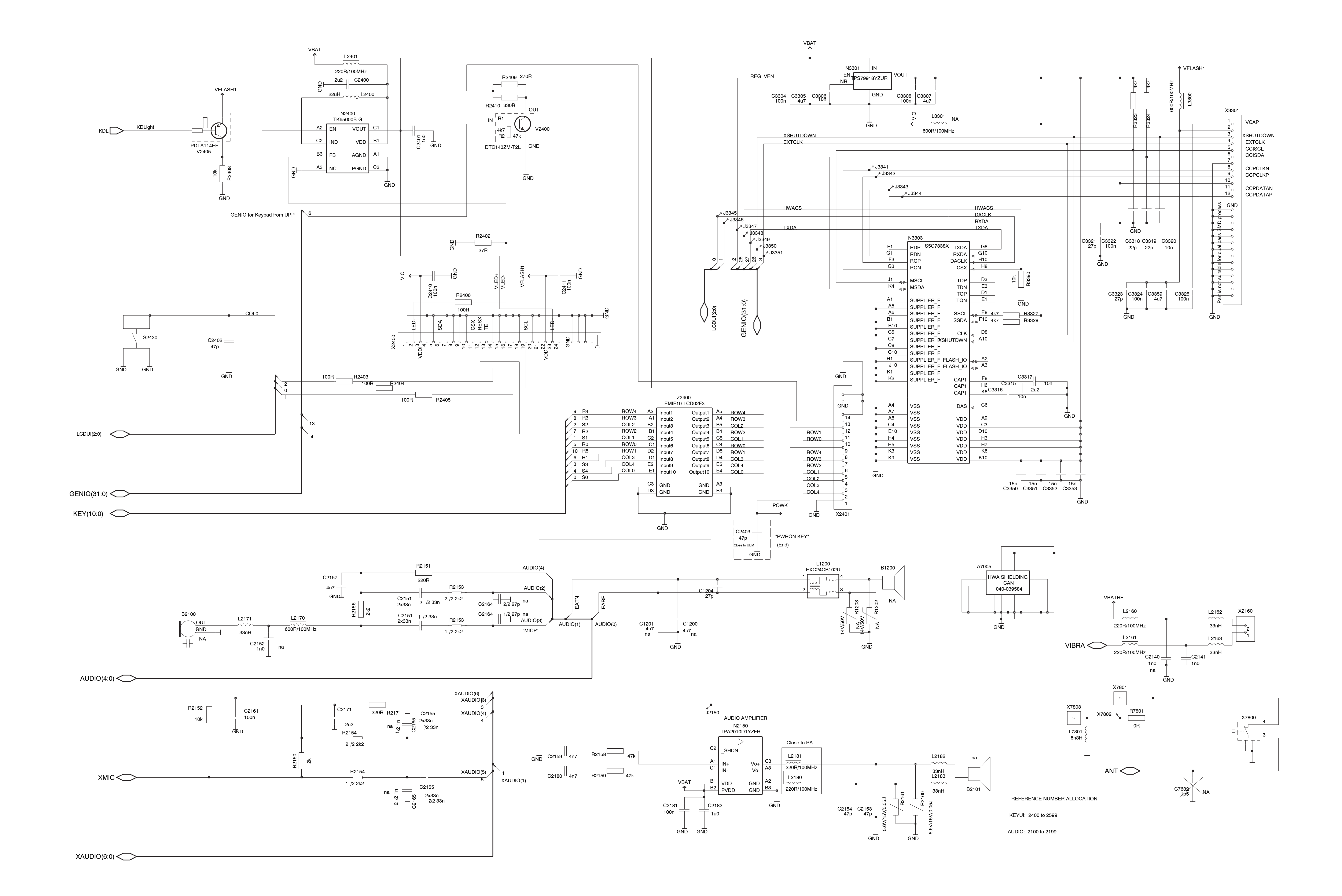


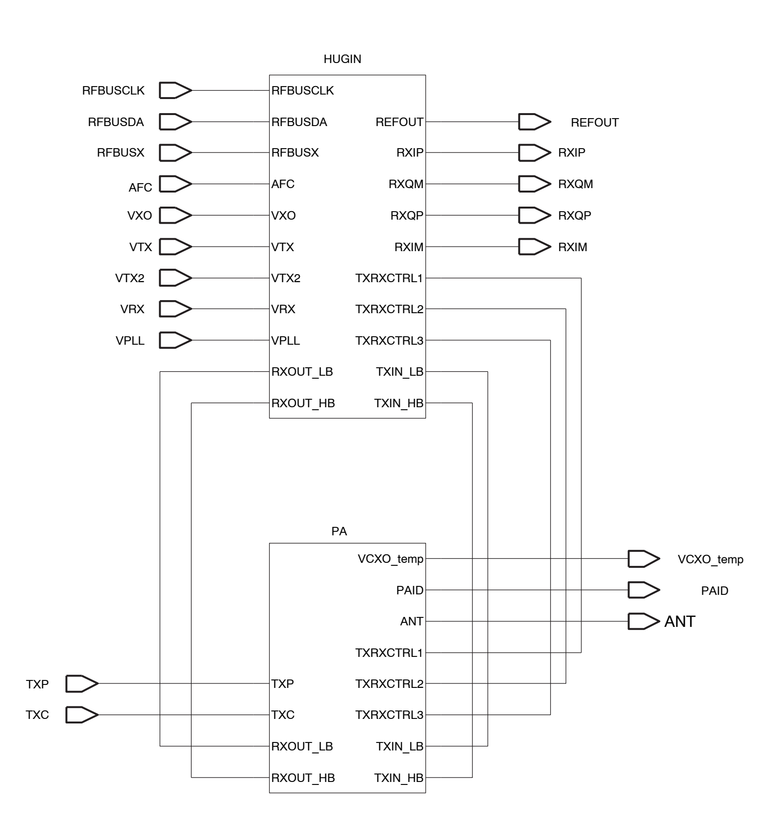


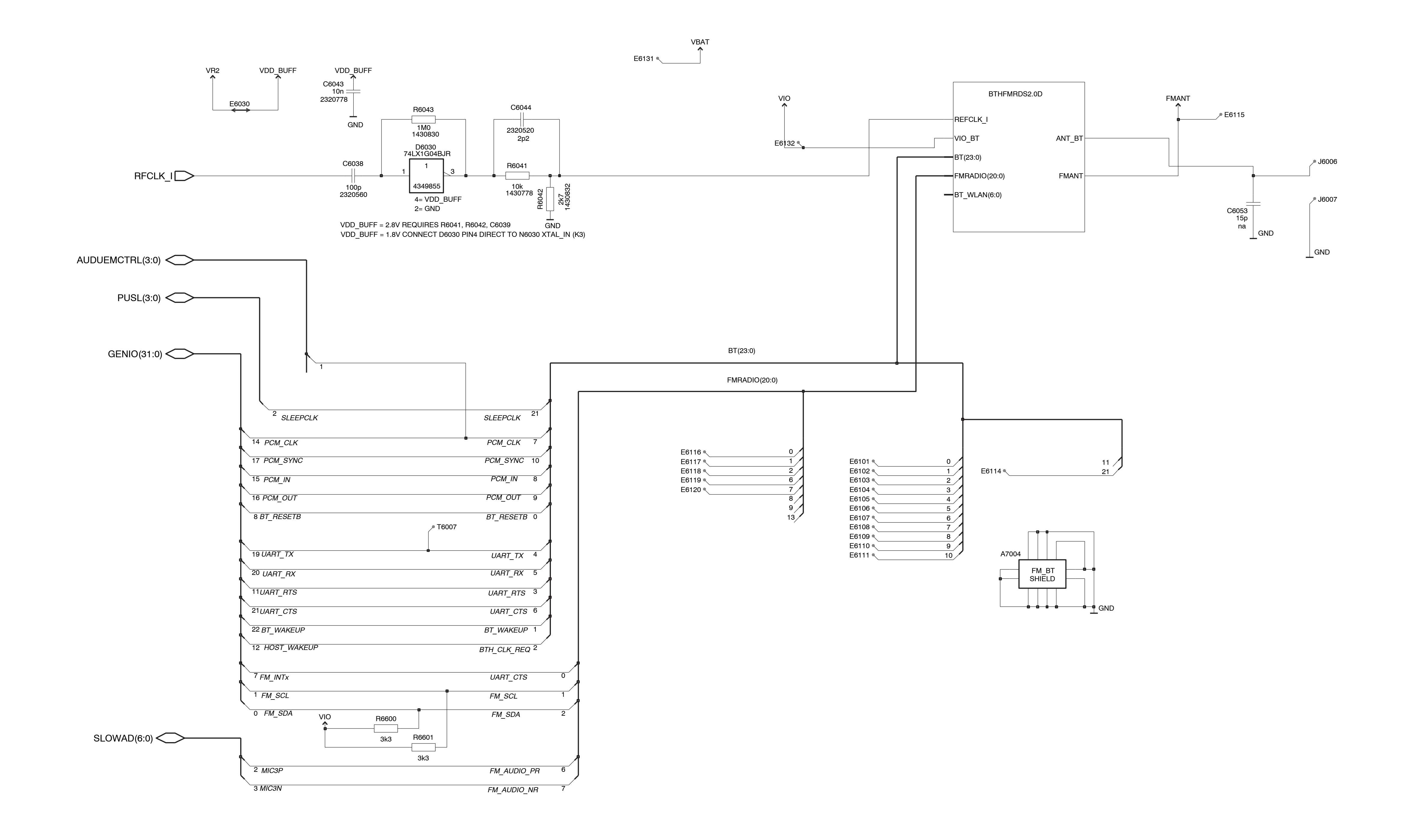
"BATTERY CONNECTOR"
VBATRF
VANA
PDTA114EE
V2010
R2020
ESDA14V2-4BF3
PRODTP3U
PRODTP2U
PRODTP7U
R2002
100R
R2003
R2004
R2005
R2013
5.6V/15V/0.05J
68nH
FMANT
L2004
X2002
DC JACK
HS JACK
FLASH
J2010
J2011
J2012
JTAG_EMULATION(6:0)
F2000
2.0A
L2000
42R/100MHz
Wide PWB foil >1mm
PACKAGE 1PMT16AT3
V2000
ESDA18-1F2
C2007
470n
XAUDIO(1)
XAUDIO(0)
R2021
4k7
V2011
PDTC114EE
SLOWAD(0)
SLOWAD(1)
"BSI"
"BTEMP"
Under the battery
NEAR BATT CONN
C2001
6p8
C2002
150u_6V3
VBATBB
VBAT
XMIC
XAUDIO(6:0)
AUDIO(4:0)
D2200
UEMCLITE_V3.0_WD_ENA
VANA
VIO
VCORE
VFLASH1
VIBRA
KDL
VSIM
SIM_CLK
SIM_I_O
SIM_RST
R2700
EMIF02-SIM02F3
Changed to low C type
X2700
C707_10M006_134_2
E2700
SIMIODAO Pull-up removed
VFLASH1
PRODTP7U
PRODTP2U
PRODTP3U
R2027
10k
D2800
UPP8M_V6.11_PROD
J2800
J2801
J2802
(SCK/MBUS) PRODTP5
(RXD/FBUSRXO) PRODTP3
(DSP_MCUTEST) PRODTP4
(TXD/FBUSTXO) PRODTP2
(VPP) PRODTP6
R2069
220R
PROD TEST PATTERN
VBATBB
X3180
"OSTRICH"
D3000
M36L0R8050U1ZC5U
COMBO 256M NOR
32M PSRAM
E3001
E3002
E3003
E3004
A5,B1,D8=VIO
A7=VPP
A3,B10,C1,D3=GND
VIO
C3030
10n
C3031
100n
PRODTP6
VPP
E3030
R3030
4k7
C3032
100n
AUDIODATA(1:0)
AUDUEMCTRL(3:0)
ISIMIF(2:0)
IACCDIF(5:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
RFCONV(9:0)
RFAUXCONV(2:0)
UEMGENIO(5:0)
"USE C2261 TO FILTER ALSO VBATVR1 AND VBATVR2"
THESE NEAR FM-CHIP
SLOWAD(6:0)
PUSL(3:0)
GENIO(31:0)
RFICCNTRL(2:0)
RFCLK
RFCLKGND
LCDUI(2:0)
KEY(10:0)
AUDUEMCTRL(4:0)
R2800
0R
X2000
NA
RFAUX(1:0)
RFCLKGND
LPRFCLK
PUSL(3:0)
REFERENCE NUMBER ALLOCATION
SYSCONN: 2000 TO 2099
POWER: 2200 TO 2399
SIM: 2800 TO 2899
RF-BB: 2900 TO 2999
MEMORY: 3000 TO 3099
EMU: 3100 TO 3199
UPP: 2800 TO 2899
FMRADIO: 6100 TO 6199

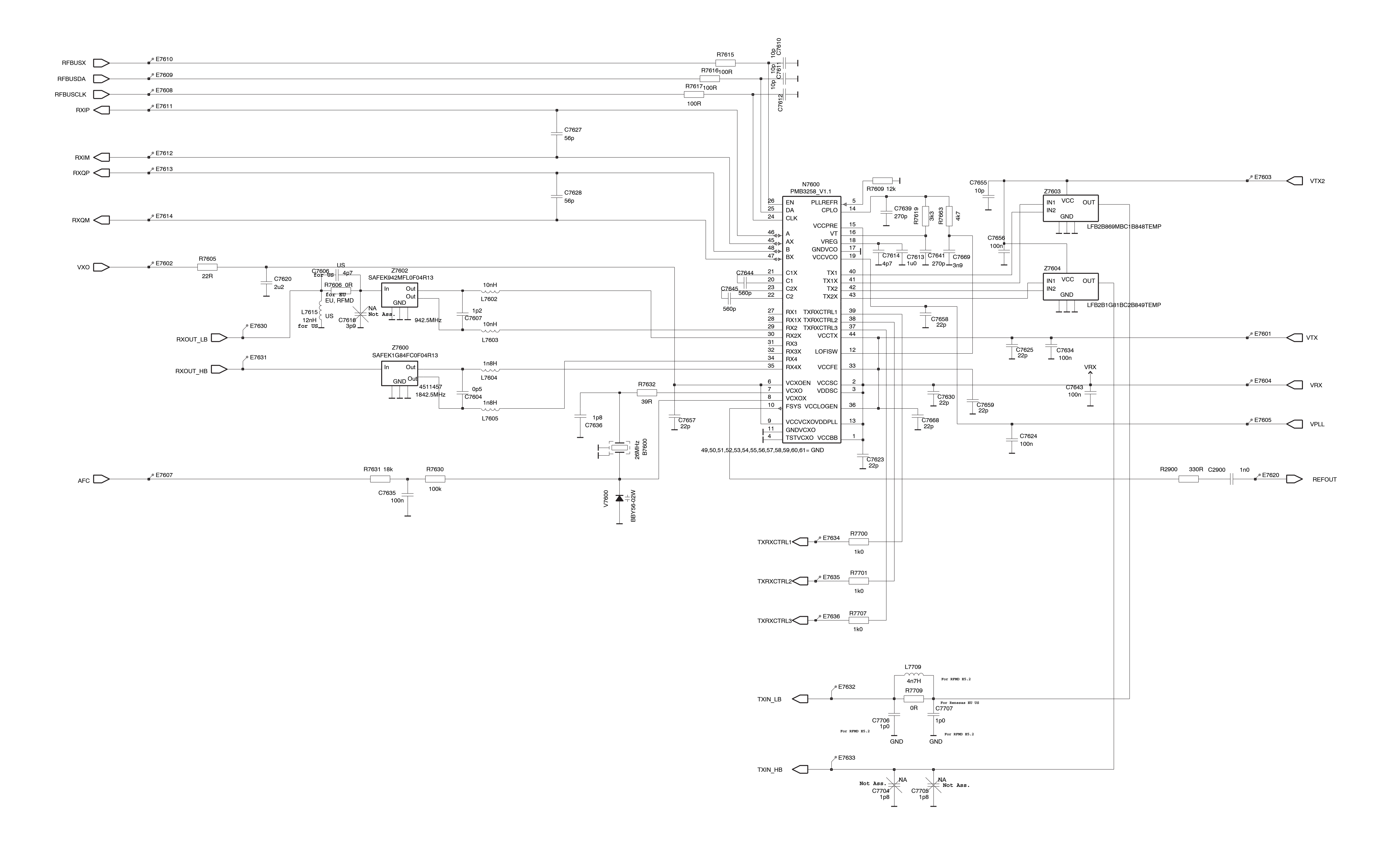

HUGIN_PLUS
schematic
SYS
1pm_01
RFAUXCONV(2:0)
RFCONV(9:0)
GENIO(31:0)
RFAUX(1:0)
RFICCNTRL(2:0)
RFCLKGND
RFCLK
SLOWAD(6:0)
PUSL(3:0)
LPRFCLK
ANT
E2906 TXC
E2907 AFC
E2911 RXIP
E2912 RXIM
E2913 RXQP
E2914 RXQM
TXIP
TXIM
TXQP
TXQM
R7610
1 /2 5k6
R7610
2 /2 5k6
R7611
1 /2 5k6
R7611
2 /2 5k6
TXP E2919
RFBUSCLK E2908
RFBUSDA E2909
RFBUSX E2910
REFOUT E2920
E2921
R2207
1k0
E2922
TO BB/RF BORDER
TXC
AFC
RXIP
RXIM
RXQP
RXQM
TXP
RFBUSCLK
RFBUSDA
RFBUSX
REFOUT
VCXO_temp
PAID
ANT
Components: 7600 - 7699
Components: 7700 - 7799
UEMCLite
VR1
VR2
VR5
VR4
VR3
VTX E2901
VXO E2902
VPLL E2905
VRX E2924 E2904
VTX2 E2903


GENIO(31:0)
BB
EM
RFCONV(9:0)
RFICCNTRL(2:0)
RFAUXCONV(2:0)
PUSL(3:0)
LPRFCLK
RFCLKGND
RFAUX(1:0)
SLOWAD(6:0)
RFCLK
RFCONV(9:0)
RFICCNTRL(2:0)
RFAUXCONV(2:0)
PUSL(3:0)
LPRFCLK
RFCLKGND
RFAUX(1:0)
SLOWAD(6:0)
RFCLK
GENIO(31:0)
AUDIO(4:0)
XAUDIO(6:0)
KEY(10:0)
LCDUI(2:0)
VIBRA
KDL
XMIC
AUDUEMCTRL(3:0)
UEMGENIO(5:0)
AUDIO(4:0)
XAUDIO(6:0)
KEY(10:0)
LCDUI(2:0)
VIBRA
KDL
XMIC
GENIO(31:0)
AUDIO(4:0)
XAUDIO(6:0)
KEY(10:0)
LCDUI(2:0)
VIBRA
KDL
XMIC
ANT
ANT
LPRF
SLOWAD(6:0)
GENIO(31:0)
AUDUEMCTRL(3:0)
PUSL(3:0)
RFCLK_I

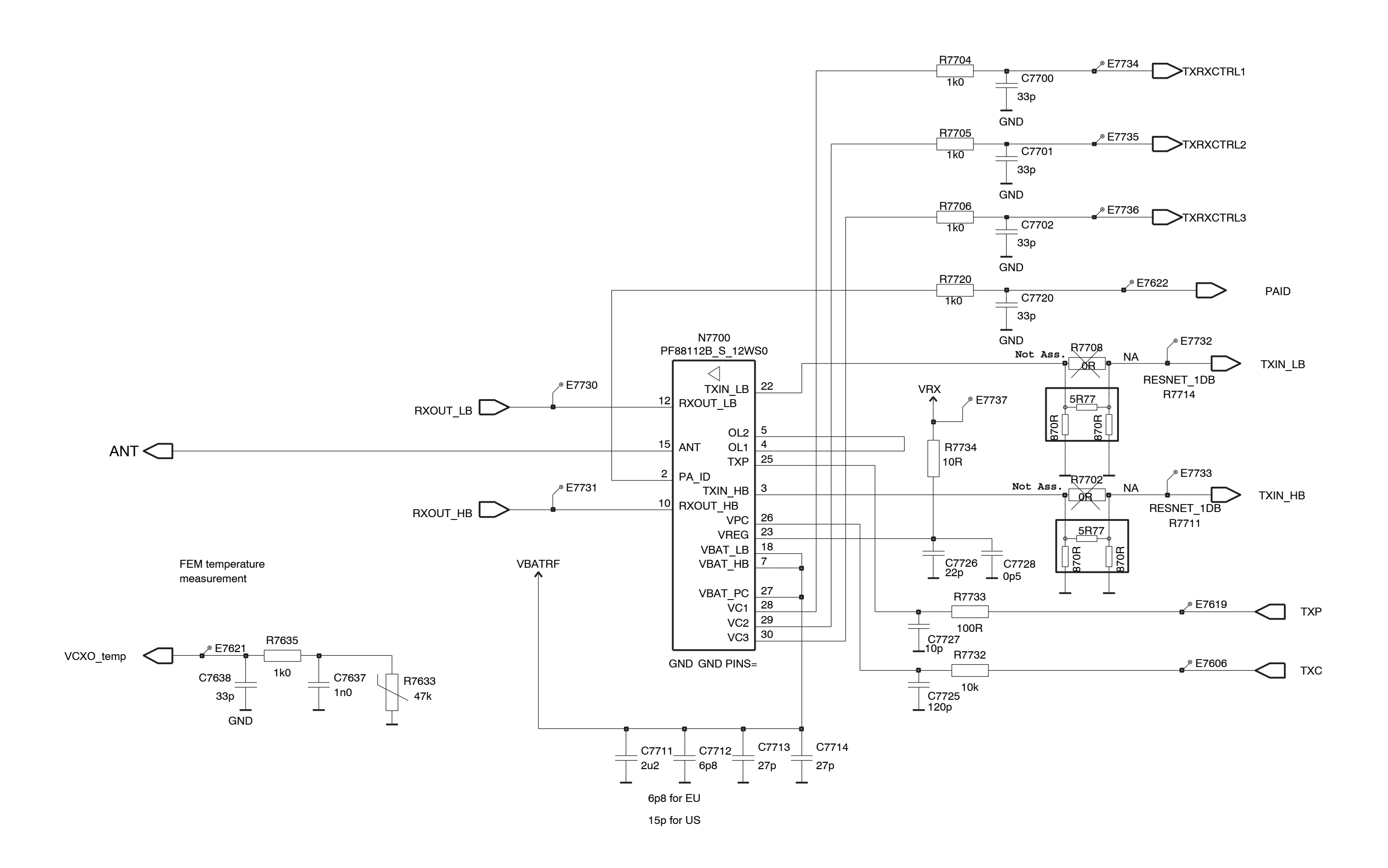



HUGIN
RFBUSCLK
RFBUSDA
RFBUSX
AFC
VXO
VTX
VTX2
VRX
VPLL
RXOUT_LB
RXOUT_HB
REFOUT
RXIP
RXQM
RXQP
RXIM
TXRXCTRL1
TXRXCTRL2
TXRXCTRL3
TXIN_LB
TXIN_HB
PA
VCXO_temp
PAID
ANT
TXP
TXC


VR2
VDD_BUFF
E6030
VDD_BUFF
C6043
10n
2320778
GND
VBAT
E6131
R6043
1M0
1430830
D6030
74LX1G04BJR
4349855
4= VDD_BUFF
2= GND
C6044
2320520
2p2
R6041
10k
1430778
R6042
2k7
1430832
GND
RFCLK_I
C6038
100p
2320560
VDD_BUFF = 2.8V REQUIRES R6041, R6042, C6039
VDD_BUFF = 1.8V CONNECT D6030 PIN4 DIRECT TO N6030 XTAL_IN (K3)
VIO
E6132
BTHFMRDS2.0D
REFCLK_I
VIO_BT
BT(23:0)
FMRADIO(20:0)
BT_WLAN(6:0)
ANT_BT
FMANT
FMANT
E6115
J6006
J6007
C6053
15p
na
GND
GND
AUDUEMCTRL(3:0)
PUSL(3:0)
GENIO(31:0)
BT(23:0)
FMRADIO(20:0)
SLEEPCLK
PCM_CLK
PCM_SYNC
PCM_IN
PCM_OUT
BT_RESETB
T6007
UART_TX
UART_RX
UART_RTS
UART_CTS
BT_WAKEUP
HOST_WAKEUP
BTH_CLK_REQ
FM_INTx
FM_SCL
FM_SDA
VIO
R6600
3k3
R6601
3k3
SLOWAD(6:0)
MIC3P
MIC3N
FM_AUDIO_PR
FM_AUDIO_NR
E6116
E6117
E6118
E6119
E6120
E6101
E6102
E6103
E6104
E6105
E6106
E6107
E6108
E6109
E6110
E6111
E6114
A7004
FM_BT
SHIELD
GND



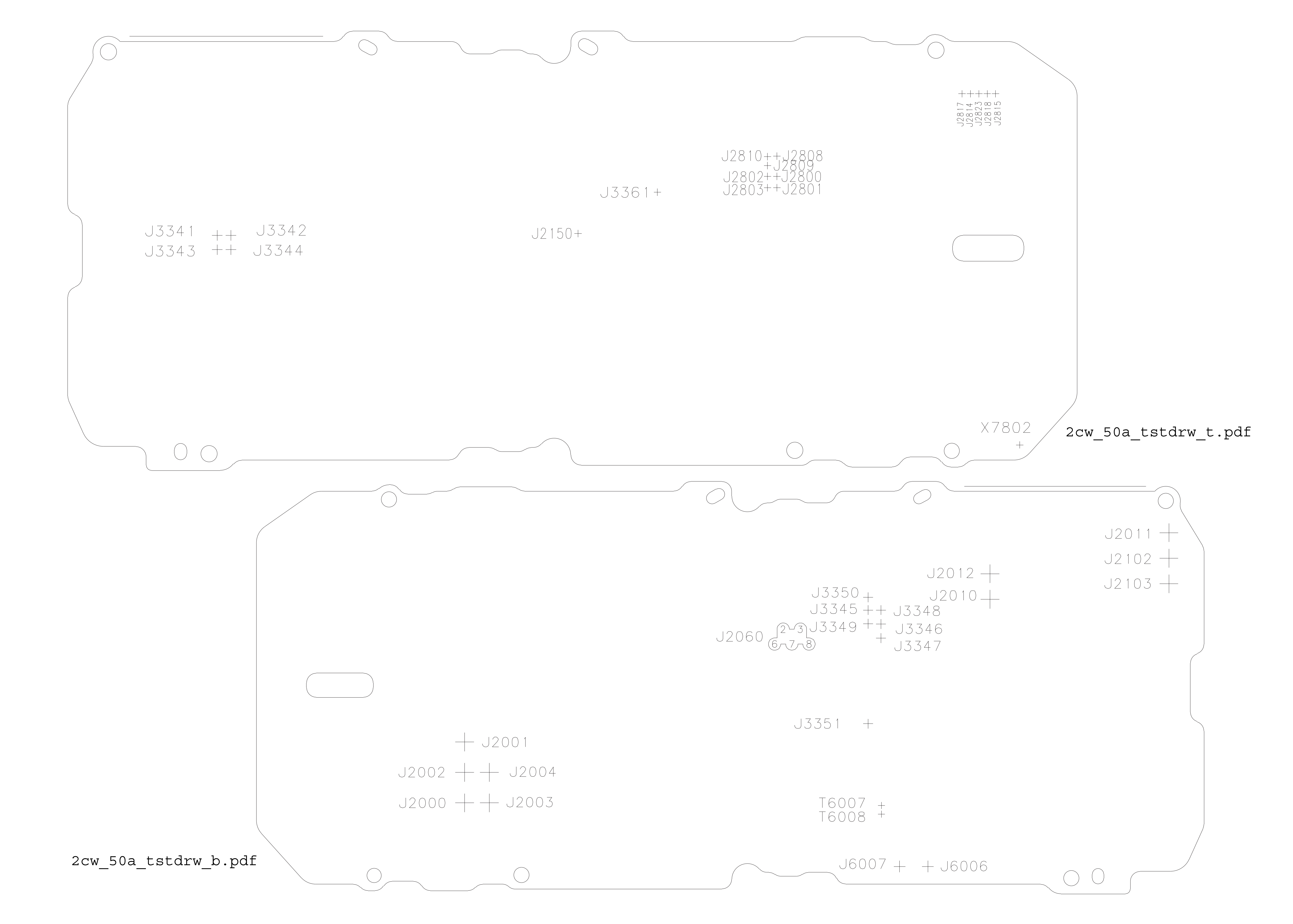
RFBUSX
RFBUSDA
RFBUSCLK
RXIP
RXIM
RXQP
RXQM
VXO
RXOUT_LB
RXOUT_HB
AFC
E7610
E7609
E7608
E7611
E7612
E7613
E7614
E7602
E7630
E7631
E7607
R7615
R7616 100R
R7617 100R
100R
C7610 10p
C7611 10p
C7612 10p
C7627 56p
C7628 56p
R7605 22R
C7620 2u2
C7606 4p7
R7606 0R
for EU
EU, RFMD
L7615 12nH
for US
C7618 3p9
NA Not Ass.
Z7602
SAFEK942MFL0F04R13
942.5MHz
Z7600
SAFEK1G84FC0F04R13
4511457
1842.5MHz
In Out GND
C7607 1p2
C7604 0p5
L7602 10nH
L7603 10nH
L7604 1n8H
L7605 1n8H
R7632 39R
C7636 1p8
C7657 22p
26MHz
B7600
V7600
BBY56-02W
R7631 18k
R7630 100k
C7635 100n
N7600
PMB3258_V1.1
EN DA CLK A AX B BX C1X C1 C2X C2 RX1 RX1X RX2 RX2X RX3 RX3X RX4 RX4X VCXOEN VCXO VCXOX FSYS VCCVCXOVDDPLL GNDVCXO TSTVCXO
PLLREFR CPLO VCCPRE VT VREG GNDVCO VCCVCO TX1 TX1X TX2 TX2X TXRXCTRL1 TXRXCTRL2 TXRXCTRL3 VCCTX LOFISW VCCFE VCCSC VDDSC VCCLOGEN VCCBB
49,50,51,52,53,54,55,56,57,58,59,60,61= GND
R7609 12k
C7639 270p
R7619 3k3
R7663 4k7
C7614 4p7
C7613 1u0
C7641 270p
C7669 3n9
C7644 560p
C7645 560p
C7658 22p
C7630 22p
C7659 22p
C7668 22p
C7623 22p
C7655 10p
C7656 100n
Z7603
LFB2B869MBC1B848TEMP
Z7604
LFB2B1G81BC2B849TEMP
IN1 IN2 VCC OUT GND
VTX2
E7603
VTX
E7601
C7625 22p
C7634 100n
VRX
E7604
C7643 100n
VPLL
E7605
C7624 100n
R2900 330R
C2900 1n0
E7620
REFOUT
TXRXCTRL1
E7634
R7700 1k0
TXRXCTRL2
E7635
R7701 1k0
TXRXCTRL3
E7636
R7707 1k0
L7709 4n7H
For RFMD E5.2
R7709 0R
For Renesas EU US
TXIN_LB
E7632
C7706 1p0
C7707 1p0
GND
TXIN_HB
E7633
C7704 1p8
C7705 1p8



R7704
1k0
C7700
33p
GND
E7734
TXRXCTRL1
R7705
1k0
C7701
33p
GND
E7735
TXRXCTRL2
R7706
1k0
C7702
33p
GND
E7736
TXRXCTRL3
R7720
1k0
C7720
33p
GND
E7622
PAID
N7700
PF88112B_S_12WS0
TXIN_LB
RXOUT_LB
ANT
PA_ID
TXIN_HB
RXOUT_HB
OL2
OL1
TXP
VPC
VREG
VBAT_LB
VBAT_HB
VBAT_PC
VC1
VC2
VC3
GND GND PINS=
E7730
RXOUT_LB
ANT
E7731
RXOUT_HB
Not Ass.
R7708
0R
NA
E7732
TXIN_LB
RESNET_1DB
R7714
5R77
870R
VRX
E7737
R7734
10R
Not Ass.
R7702
0R
NA
E7733
TXIN_HB
RESNET_1DB
R7711
C7726
22p
C7728
0p5
R7733
100R
C7727
10p
E7619
TXP
R7732
10k
C7725
120p
E7606
TXC
VBATRF
C7711
2u2
C7712
6p8
C7713
27p
C7714
27p
6p8 for EU
15p for US
FEM temperature
measurement
VCXO_temp
E7621
R7635
1k0
C7638
33p
GND
C7637
1n0
R7633
47k



2cw_50a_asmdrw_t.pdf
2cw_50a_asmdrw_b.pdf
X2401
B2200
D2200
D2800
D3000
L2400
N2400
B7600
N7600
N7700
X2160
X2002
X3180
X2700
N3303
X3301
A7005
S2430
X2005
N6000
Z6000
X2400
X7803
8
7
6
5
4
3
2
1
A B C D E F G H I J K L M N O P Q R S T U
U T S R Q P O N M L K J I H G F E D C B A


J2817
J2814
J2823
J2818
J2815
J2810
J2808
J2809
J2802
J2800
J2803
J2801
J3361
J3341
J3342
J3343
J3344
J2150
X7802
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J2011
J2102
J2103
J2012
J2010
J3350
J3345
J3348
J3349
J3346
J3347
J2060
2
3
6
7
8
J3351
J2001
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J2000
J2003
T6007
T6008
J6007
J6006
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